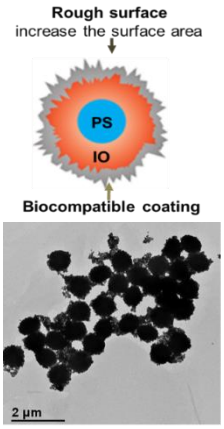
Product Data Sheet

HiSur Maleimide Beads

DESCRIPTION



Ocean NanoTech's HiSur Maleimide activated magnetic beads are the uniform, superparamagnetic beads with a layer of biocompatible polymer coating. Maleimide activated magnetic beads could react with thiol groups from targeted protein or ligands in a simple mix-and-go format, once the covalent bond is formed, the table linkage could prevent protein or ligand leaching from the surface. Maleimide activated magnetic beads are ideal for isolation of small components such as proteins and peptides, immobilization of thiol modified labile proteins/peptides, and nucleic acid. Ideal for immunoprecipitation/purification of proteins and protein complexes, coupling functional enzymes to the bead surface for downstream assays, and identifying protein binding partners. Captured proteins and protein complexes are easily separated, washed, and eluted.

FEATURES

- **Ready-to-use:** No more activation step is required.
- **High surface area & superior binding capacity:** more binding sites available.
- **Low non-specific binding**: stable, pre-blocked beads provide clean purification products without interference from the non-specific binding of complex samples.
- **High iron content:** ~60%
- **Fast magnetic separation**

SPECIFICATION

- **Form:** lyophilized powder
- **Weight percentage:** 5%
- **Surface group:** NHS Ester
- **Size:** 1 µm (nominal)

STORAGE & USAGE

Store at -20°C. Avoid frequently opening sample, that may result in loss of binding activity.

Ensure the suspension is well dispersed prior to use, bath sonication is strongly recommended.

AVAILABLE PRODUCTS

Catalog	Product Description	Unit size
HM1000-10	HiSur Maleimide Beads	10 mg

Difference between Mono Mag 1 µm vs HiSur 1 µm

- MonoMag has a layer of coating to isolate the iron oxide from the outer environment. While HiSur does not.
- MonoMag has narrower size distribution than HiSur.
- The surface area of HiSur is around four times larger than that of the same weight of Mono Mag. Therefore, HiSur has higher binding capacity than MonoMag.